

ABSTRACT

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A Coriolis flowmeter sensor capable of handling large mass flow rates and having a reduced flag dimension. In order to have a reduced flag dimension, the flow tubes are formed to have a substantially semicircular arc between an inlet and an outlet. Brace bars connected to the flow tube proximate the inlet and outlet, separate the frequencies of vibration in the flow tubes. Pick-off sensors are positioned upon the substantially semicircular arc of the flow tube at a position that allow the sensors to maximize detection of low amplitude, high frequency vibrations of the flow tubes required to have a reduced flag dimension.